

7. Conclusion and Future Studies

The time series of salinity variations points to two time intervals with clearly differing values of salinity anomalies. The period 1961-1978 is characterized by positive salinity anomalies for the surface-to-bottom water layer. The period 1979-1995 is characterized by negative salinity anomalies.

The development for every zooplankton species given in the database can be described according to its climatic annual cycle. This result can be applied to other biological data in the Arctic Seas as a criterion for quality control.

The zooplankton species most sensitive to variations in temperature and salinity have been identified. These relationships can be a useful tool as applied to other regions of the White and Barents Seas. In future studies, priority will be given to the development of the methods for quality control of biological data as well as the documentation of changes in the conditions of the marine environment and to zooplankton.